



1  
00:00:00,080 --> 00:00:04,060  
<Swoosh Sound, Beep, and Music>

2  
00:00:08,130 --> 00:00:12,150  
"...over the last pass, so..." Working here at the Space Operation Institute

3  
00:00:12,170 --> 00:00:16,230  
allows the students here to hit the ground running for anything that's NASA involved.

4  
00:00:16,250 --> 00:00:20,290  
What we have at the SOI is rare, where we are able to actually

5  
00:00:20,310 --> 00:00:24,360  
control or at least monitor a satellite in real time.

6  
00:00:24,380 --> 00:00:28,410  
The connection between Capitol College and Goddard is that we

7  
00:00:28,430 --> 00:00:32,470  
basically do everything that they are doing right here, just as students.

8  
00:00:32,490 --> 00:00:36,540  
You know, we're not in the educational program. We're here to do things

9  
00:00:36,560 --> 00:00:40,600  
and operate, that's true, but we're training engineers for the future

10  
00:00:40,620 --> 00:00:44,630  
is what basically it amounts too. They were interested in having a process to

11  
00:00:44,650 --> 00:00:48,670  
get more engineers into the space arena, and also to

12  
00:00:48,690 --> 00:00:52,710  
reach their educational outreach goals - to help colleges and universities

13  
00:00:52,730 --> 00:00:56,760

educate the next generation of space engineers. Normally they are assigned

14

00:00:56,780 --> 00:01:00,780

and have a mentor or they are supervised by a mentor,

15

00:01:00,800 --> 00:01:04,830

and they go through the same process that we have to train

16

00:01:04,850 --> 00:01:08,860

new engineers. This is no different than having

17

00:01:08,880 --> 00:01:12,990

a new hire than having an intern. They get to work side by side

18

00:01:13,010 --> 00:01:17,000

with NASA Goddard engineers. They attend meetings with the engineers,

19

00:01:17,020 --> 00:01:21,020

their opinions are asked, they are appreciated,

20

00:01:21,040 --> 00:01:25,100

they work as part of the team on the TRMM mission. My title is

21

00:01:25,120 --> 00:01:29,170

for the Space Operations Institute is the lead system administrator.

22

00:01:29,190 --> 00:01:33,230

Actually what I go through and do is maintain the systems for software and

23

00:01:33,250 --> 00:01:37,300

hardware-wise to make sure the security standards are in place. I am in

24

00:01:37,320 --> 00:01:41,370

charge of testing where we have to look for any loop holes in any of the code

25

00:01:41,390 --> 00:01:45,410

and give it back as a product. And they have to rebuild it if anything is not correct

26  
00:01:45,430 --> 00:01:49,450  
I communicate with the engineers over at Goddard

27  
00:01:49,470 --> 00:01:53,490  
and I get all the regulations and requirements and I give that to our

28  
00:01:53,510 --> 00:01:57,500  
development team. It's amazing. I learn so much

29  
00:01:57,520 --> 00:02:01,560  
that I would probably never learn anywhere else. It's just overwhelming,